

Huayun reserves the right of changing product design & spec.

Quolity serves the world, creates a centurial HUAYUN

Hefei Huayun machinery manufacturing Co.,Ltd

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Huayun official website



Huayun fluid machinery



Dispersing & Mixing & Milling machines

Paint production line/ Reaction kettle/Mixer/Tank/Batch mixer/Inline mixer/Bead mill

www.huayunn.com

Hefei Huayun Machinery Manufacturing Co.,Ltd



Company introduction

Hefei Huayun Machinery Manufacturing Co., Ltd. was established in 1995. It is a high-tech enterprise specialized in the manufacture of fluid machinery equipment in China. It is located in Hefei Shuangfeng Industrial Park, a national development zone. It has 15,000 square meters of modern factory buildings, dozens of precision CNC machine tools and welding. Robot, first-class experimental test equipment. The company has passed ISO9001 quality management system certification, ISO14000 environmental system certification and strict implementation, and the production site fully implements 6S management. The company holds the registered trademark of “Huayun Machinery” and has won many titles such as “Hefei Famous Trademark” and “Contract-honoring and Credit-keeping Unit”. The company's domestic and foreign trade marketing system is complete since 1995, and has established cooperative relations with nearly 3,000 domestic and foreign enterprises and military units.

The company has strong technical strength. The professor-level senior engineer who enjoys the State Council subsidy personally presides over the technical work and establishes an independent new product research and development department. The R&D department underlies the Hefei Hose Pump Engineering Technology Center and has signed an industry-university-research cooperation project with Jiangsu University. Jiangsu University Graduate Internship Base. In addition, the company is a close cooperation unit of Hefei General Machinery Research Institute, Hefei University of Technology and the Third Design Institute of China's Ministry of Chemical Industry. It jointly researches and develops a large number of high-tech products to serve customers.

After more than 20 years of precipitation and accumulation, Huayun Machinery has formed a wide range of products, including three series of products: emulsification equipment series , industrial hose pump series and dispersion, grinding; automatic coatings, non-standard chemical equipment series . Products are exported to Europe, North America, South America, Australia, the Middle East and Southeast Asia, with good reputation and brand recognition at home and abroad. Huayun has gradually surpassed its rivals and stepped into the highest level in the world of emulsification equipment series manufacturing!

Since its establishment, Huayun Company has taken "integrity, quality and service" as the creed of enterprise development, relying on technological innovation, creating high-quality products to serve the world, and establishing a benchmark of 100 years of integrity.

Quality serves the world,creates a centurial HUAYUN



Paint production lines

- Fully automatic paint production line
- Complete production line of equipment for real stone paint
- Complete production line of equipment for glue
- Complete production line of equipment for pesticide
- Complete production line of equipment for modified asphalt
- Complete production line of equipment for acrylic acid
- Water-in-water multi-color paint equipment
- Polyurethane waterproof equipment

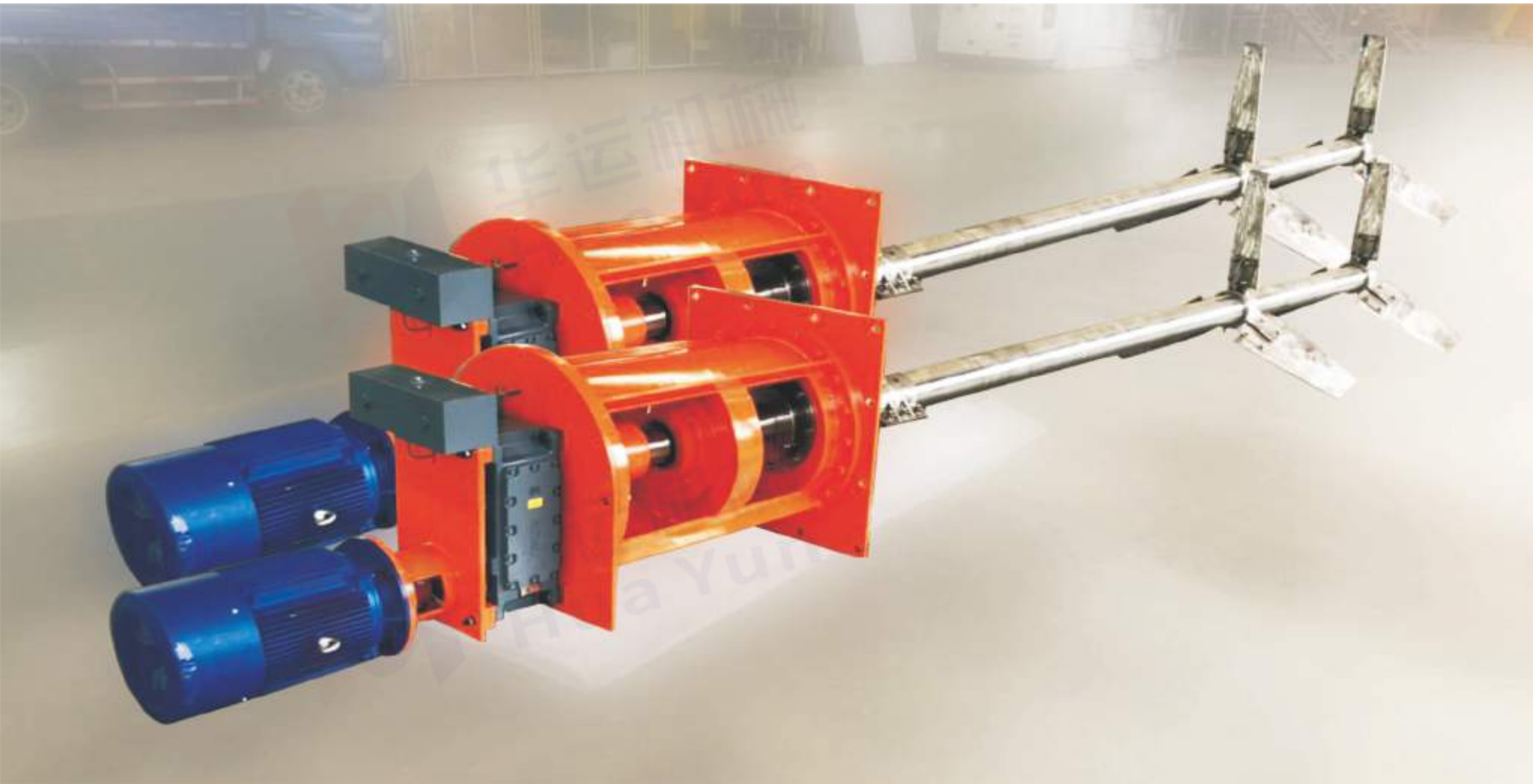
Provide professional consultation, project, design, manufacturing, installation, debugging, Production technical support and raw material supply and other complete services.



Reaction kettle

HuaYun provides custom-made reaction kettle for various applications Including accelerating chemical reactions, mixing of materials, preventing the precipitation of materials, enhancing heat transfer efficiency, etc.

1. Various types of mixing forms can be customized according to customer requirements.
2. All kinds of heat exchangers, including jacket, coil, electric heating, steam heating, heat conduction, oil heating and other various forms can be customized according to customer requirements.
3. Optional explosion-proof performance, sealing performance, positive or negative pressure in the kettle and other configurations.
4. Our company has accumulated rich experience due to numerous works in designing, manufacturing and selling non-standard mixing reactors ,better understanding customers' requirements.



Mixers

Capacity: capable for above 5000m³ volume device

Pressure: capable for above 1000Mpa(G) volume pressure

Power: capable to supply above 1000KW mixer

Length of shaft: Max.35m

Impeller Dia: Max.12m

Material: the mixer is made of various of metal materials including carbon steel, SS304, SS316, hastelloy, titanium alloy, etc , on which rubber / plastic layers can be added.

Seal: Various seals for users to choose such as hydraulic seal, packing seal, single /double mechanical seal, nitrogen backpressure seal, temperature circulation system seal.

Motor: various explosive and non-explosive motors

Installation: available for vertical (top and bottom), horizontal installation.



Tank

Tanks are mainly used for supporting sales of dispersers, bead mills, batch mixers, etc.

- Single layer or double layers of tank can be customized.
- Mirror polished for inside and outside
- Equip with cover to avoid volatilizing of materials
- Equip with material discharge valve, the bottom of the tank is divided into inclined bottom and head bottom
- Equip with moving wheel with brake device.



Disperser series

- ✓ Various applications
- ✓ Safe and reliable
- ✓ Complete specifications(4-110Kw)
- ✓ Easy maintenance

Disperser

- 1.Disperser adopts stepless speed meeting various process requirements.
- 2.It is laminar condition below the dispersing disc when the equipment is working resulting in material dispersing. The high shear disperser is equipped with hydraulic lifting device , capable to rotate with 360 degree.
- 3.When the disperser is working, turbulent flow would be formed generating high shear and impact power to materials.

Working Process

Powerfulcentrifugalforcepushthematerial intothegapofstatorandrotor. Meanwhile, thematerialsaresqueezedbycentrifugal power, frictedbyliquidlayersandimpacted byliquidpower, resultingininitialdispersing.

Rotors produce 15m/s line speed when the disperser is working, materials are thown out from the rotors at the meantime of liquid power’s shear, liquid layer’s friction, etc.

Process repeats several times and finally complete the dispersing process by several times’ dispersing.

Model Composition

H

Company Code

F

Disperser

L

Product Classification

105-

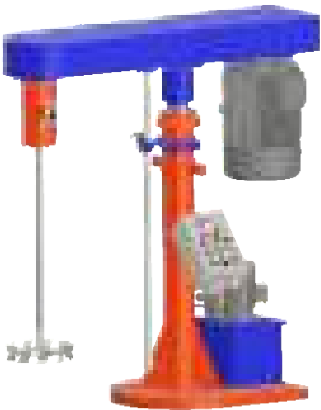
Product Model

4

Driving Power

(Remark: Product classification:J for simple type, M for kettle application)

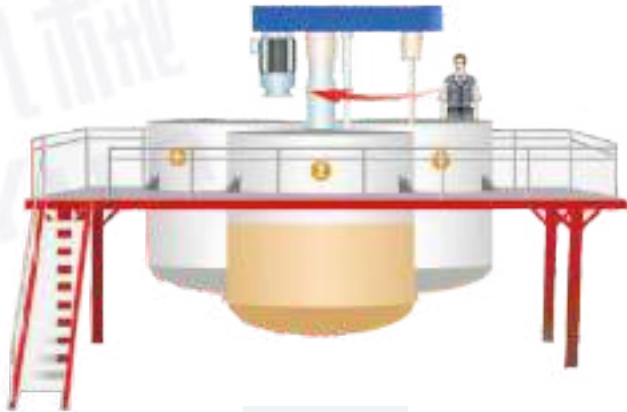
Installation



Hydraulic Disperser



Reactor



Platform

Specification Table

Model	Capacity(L)	Power(Kw)	Speed(rpm)	Dispersing Disc (mm)	Lifting Distance(mm)	Hydraulic Power(Kw)	Length(mm)	Width(mm)	Height(mm)	Weight(Kg)
HFL-4	≤200	4	0-1450	200	850	0.75	1360	420	1530	600
HFL-7.5	≤400	7.5	0-1450	230	850	1.1	1490	460	1640	800
HFL-11	≤500	11	0-1450	250	1000	1.1	1670	500	1820	1000
HFL-15	≤700	15	0-1450	280	1000	1.1	1670	500	1820	1100
HFL-18.5	≤800	18.5	0-1450	300	1200	2.2	1890	640	2000	1300
HFL-22	≤1000	22	0-1450	350	1200	2.2	1890	640	2000	1400
HFL-30	≤1500	30	0-1450	400	1200	2.2	2020	700	2180	1500
HFL-37	≤2000	37	0-1450	400	1200	2.2	2020	700	2180	1600
HFL-45	≤2500	45	0-1450	450	1500	2.2	2200	750	2350	1900
HFL-55	≤3000	55	0-1450	500	1500	2.2	2440	780	2350	2100
HFL-75	≤4000	75	0-960	550	1800	3	2580	800	2850	2300
HFL-90	≤6000	90	0-960	600	1800	3	2700	820	3100	2600
HFL-110	≤8000	110	0-960	700	2200	3	2880	850	3350	3100

Pictures



Pictures



Pictures



Pictures





Batch mixers

- ☑ Stable working, low noise
- ☑ Effective, low consumption
- ☑ Different working head to meet various requests
- ☑ Easy maintenance

Batch mixers

Batch mixers is developed and manufactured by us based on world-class advanced technology, every specification is the most leading, the quality strictly comply with GMP requirements and ISO9001. Especially apply to food, beverage, chemical, petrochemical, pigment, dyestuff, paint and pharmacy industry, the structure is compact, simple operation, lower noise and stable running, its most important advantage is there is no grinding medium during whole process. And its function includes high shear, dispersing, homogenizing, mixing and transferring.

Working Principle

HIJ(vertical) Batch mixers make one or more phases into one continuous phase. And normally every phase is not melted with others, but the high tangent speed and high frequency mechanical effect of rotor make the solid phase, liquid phase and gaseous phase equally homogenized in very short time with corresponding technology and additives, finally get the stable and high quality products.

Working Process



The material is sucked into the working chamber from two direction axially due to the centrifugal force generated by rotor.



The material is squeezed and crashed while it is tossed to the space between rotor and stator by centrifugal force, this process called "elementary homogenizing".



The tangent speed of rotor can be adjusted maximally to 40m/s, and generates mechanical and hydraulic shear, friction, crash, this get the material dispersed, homogenized and crashed completely and shot out through stator at the same time.



The material is continually shot out radially, and its flow direction changed while due to the resistance of container wall and itself, meanwhile the flow generated by axial suction of rotor also exist, over and over again the material get dispersed and homogenized.

Model Composition

H
Company Code

I
Intermittent

J
Series

105-
Model

4
Power

K
Head Type

Note: (series: J=simple connection, T=elastic connection, M=sealed type
head type: k1=single direction suction, k2=double direction suction)

Optional Working Head

Different working head available to fulfill dispersing, homogenizing, grinding for different materials.



Double direction suction working head

Apply to melting, suspension, homogenizing of low or medium viscosity materials.



Single direction suction working head

Apply to medium viscosity fluid materials with medium size particle.



Single direction suction working head

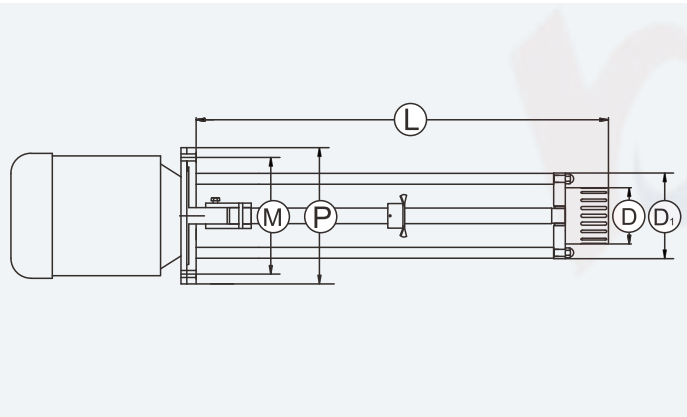
Apply to medium viscosity fluid materials with medium size particle.



Single direction suction working head

Apply to the mixing of low viscosity materials, especially for the production of latex and fluid materials with small particle.

Specification



Model	Power(Kw)	Rotary speed (rpm)	handling capacity (L)	D	D1	P	L	M
HIJ101	1.5	2800-2900	5-50	80	140	200	355	165
HIJ101	2.2	2800-2900	50-100	88	145	200	650	165
HIJ105	4	2800-2900	100-300	120	180	250	750	215
HIJ110	7.5	2800-2900	200-800	140	210	300	900	265
HIJ115	11/15	2800-2900	300-1000	160	230	350	1050	300
HIJ120	18.5	2800-2900	500-1500	180	260	350	1200	300
HIJ125	22	1400-1500	800-2000	200	270	350	1200	300
HIJ130	30	1400-1500	1000-3000	240	320	400	1355	350
HIJ150	37	1400-1500	1500-5000	260	340	400	1395	350

Installation



Applications

Food industry: chilli sauce, icecream, butter, juice, peanut milk, soymilk, soybean sauce, maltose, spices and beverage.

Chemical industry: paint, pigment, coating, lubricant, diesel, pitch, detergent, plastics, resin, leather, etc.

Daily chemical industry: toothpaste, detergent, lipstick, facial cleanser, shampoo, shoe polish, bath cream, soap, etc.

Medical industry: syrup, chinese patent medicine, bee milk, vaccine, oral liquid, antibiotics, injection, etc.

Construction industry: wall coating, waterproof coating, colorful coating, ceramic glaze, nano-coating, etc.

Paper industry: pulp, adhesive, rosin emulsion, etc.

Pesticide industry: bactericide, herbicide, fertilizer, biopesticide, etc.

Others: textile industry, coal industry, military industry.

Pictures





inline mixers

- ✓ High capacity
- ✓ High efficiency, Energy conservation
- ✓ Automatic
- ✓ Easy operation and maintenance

Inline mixers

The high shear inline mixers working chamber is equipped with one set, two sets or sets of rotating stators, there are end suction ceilings and horizontal cantilever structures. Each level is two to six layers, and is composed of primary, secondary or three stage high speed rotating stators. The motor and the working head are elastically connected. The bearing can be greased or lubricated, it is easy to disassemble and install, and the cost of replacement parts is low. The double-faced mechanical seal is used. The applicable temperature is -20—140 degree celsius, and the temperature range needs to be customized.

working process

1. The high shear inline mixers is a high performance equipment for continuous production or recycling of fine materials. There are 1-3 sets of stator and rotor equipped in the chamber, it generates very strong axial suction power to draw materials into the chamber when the rotor runs.
2. After materials enter the chamber, it is quickly dispersed, homogenized and emulsified, and equably mixed.



Big teeth
Crush, Shear,
Dissolve, Disperse



Middle teeth
Disperse,
Refinement, Emulsify



Small teeth
Super disperse, Emulsify,
homogenize, pulped

Model Composition

H
Company
Code

II
Continuous

C
Product
Category

405-
Product
Number

4
Driving Power

(Note: Product category: C single-level six-story horizontal D second-level six-tier bracket type E three-level six-tier bracket type)

Applications

Mixture of Liquid-liquid, solid-liquid and gas-liquid, coatings, paints, food, metal oxide suspension, oil-water mixture, accelerate reaction, nanoscale chemicals, etc.



Work Advantage

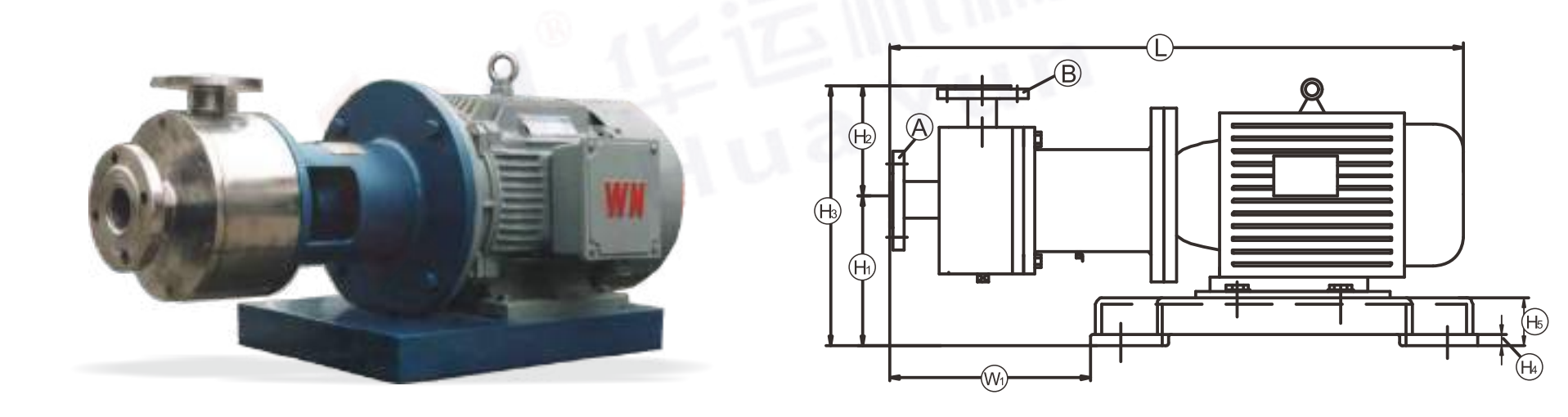
- 1.Large processing capacity, suitable for continuous online industrial production
- 2.High uniformity
- 3.Time-saving, energy-saving, high efficiency
- 4.Lower noise, stable operation
- 5.High quality consistency
- 6.100% of materials are processed
- 7.Materials can be recycling processed and transferred
- 8.Simple operation, easy maintenance
- 9Automatic control is optional

Applications

- 1.Biomedicine**
Fat emulsion, vaccine, injection, antibiotics, medicated lotion, microcapsule emulsification, cell disruption, tissue homogenate, microspheres, etc.
- 2.Daily Product**
Face cream, shower gel, shampoo, cream, skin lotion, make-up, cleansers, soap, daily fragrance, etc.
- 3.The food Industry**
Liquid milk, milk drinks, dairy products, juices, ketchup, peanut butter, jam, ice cream, jelly, pudding, chocolate, soy milk, beer, seasonings, food additives, etc.
- 4.Petrochemical**
Lubricants, heavy oil, diesel, asphalt, coal water slurry, catalysts, etc.
- 5.New energy**
Lithium battery, lead acid battery, super capacitors, photovoltaic cells, etc
- 6.Textile Additives**
Dyestuff, silicone, pastes, leveling agents, fabric finishing agents, brighteners, leather additives, etc.
- 7.Chemical Fiber**
Slurry, spandex, kevlar, filament, staple, microfiber, viscose, high strength fiber, acrylic, etc.
- 8.Paints and inks**
Printing inks, latex paints, architectural coatings, nano-coatings, coating additives, glaze, bentonite, pigments, etc.
- 9.Pesticide**
Water emulsion, suspensions, microcapsules, seed coating agents, pesticide additives, insecticides, herbicides, fertilizers, etc.
- 10.Nano-materials**
Fumed silica, ultra-fine titanium dioxide and ultra-fine alumina, etc.
- 11.Paper**
Pulping, rosin dispersion, papermaking aids, rosin resin emulsification, paraffin emulsification, etc.
- 12.Fine Chemicals**
Plastic additives, seasoning dispersion, adhesives, sealants, glues, surfactants, anti-sticking agent, fluorine cleaning agent, pigment paste, fungicides, flocculants, coagulants, silicon cleaning agents, lighting materials, etc.
- 13.Reaction Extraction**
On-line reaction, micro reaction, on-line extraction, macromolecular synthesis, polymerization reaction, ultra-pure reaction, solid-liquid reaction, gas-liquid reaction, multi-phase reaction, etc.

Single-stage inline mixers

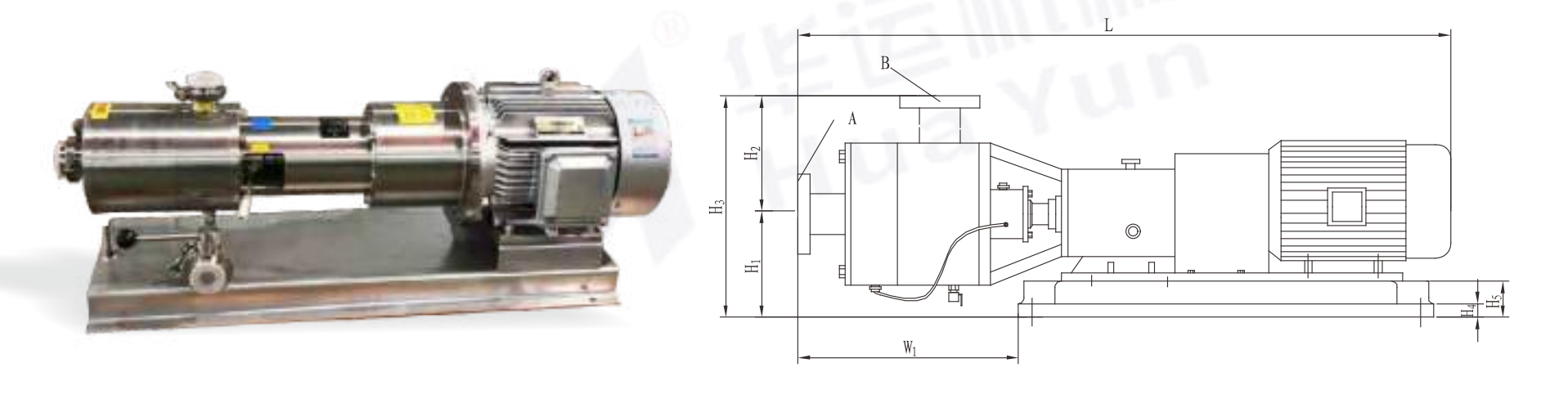
Technical Parameters



Model	Motor (KW)	Rotate Speed (r/min)	Flow Speed (m³/h)	Head(M)	L	W1	H1	H2	H3	H4	H5	FlangeA	FlangeB	Weight (Kgs)
HIIC405	4	2930	6.5	8	775	250	175	155	330	20	80	50	40	105
HIIC410	7.5	2930	8	8	815	280	215	163	378	20	80	50	40	145
HIIC415	11	2930	12	8	947	330	240	182	422	20	80	65	50	195
HIIC420	18.5/22	2930	25	8	1006	376	240	225	465	20	80	80	65	240
HIIC435	37	2930	40	8	1110	376	240	225	465	20	80	80	65	240
HIIC450	55	2930	60	8	1110	376	240	225	465	20	80	80	65	240

Double-Stage inline mixers

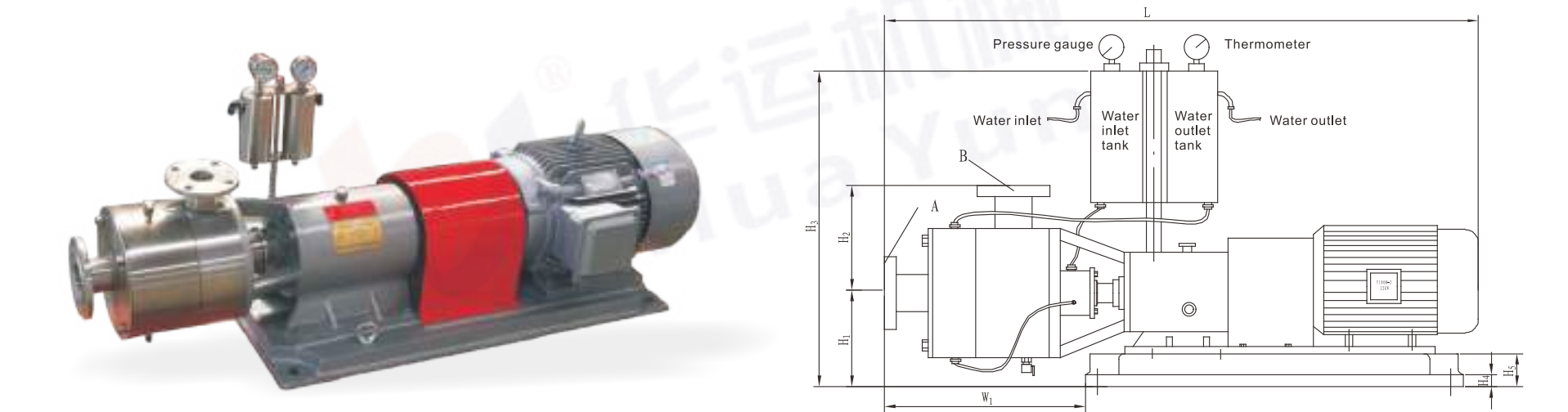
Technical Parameters



Model	Motor (KW)	Rotate Speed (r/min)	Flow Speed (m³/h)	Head(M)	L	W1	H1	H2	H3	H4	H5	FlangeA	FlangeB	Weight (Kgs)
HIID405	4	2930	2.5	20	1349	308	182	180	480	12	50	50	40	135
HIID410	7.5	2930	5.5	20	1349	308	182	180	480	12	60	50	40	175
HIID415	11	2930	11	20	1463	347	220	202	573	12	50	65	50	249
HIID425	18.5/22	2930	20	20	1584	362	270	230	603	20	80	80	65	372
HIID435	37	2930	35	20	1855	396	300	248	693	20	90	100	80	503
HIID450	55	2930	48	20	2022	413	360	270	723	20	100	100	80	693

Three-Stage inline mixers

Technical Parameters



Model	Motor (KW)	Rotate Speed (r/min)	Flow Speed (m³/h)	Head(M)	L	W1	H1	H2	H3	H4	H5	FlangeA	FlangeB	Weight (Kgs)
HIIIE405	4	2930	2.5	20	1396	355	182	180	480	12	50	50	40	150
HIIIE410	7.5	2930	5.5	20	1396	355	182	180	480	12	60	50	40	190
HIIIE415	11	2930	11	20	1503	387	220	202	573	12	50	65	50	279
HIIIE425	18.5/22	2930	20	20	1634	412	270	230	603	20	80	80	65	407
HIIIE435	37	2930	35	20	1905	446	300	248	693	20	90	100	80	543
HIIIE450	55	2930	48	20	2077	463	360	270	723	20	100	100	80	733

Lab Three stages Five storey inline mixers

Many scientists have been thinking the high frequency mechanical effect of stator and rotor is the development basis of disperser, but after proving its excellent work in chemical materials, now has expanded to other fields. The force generated by stator and rotor promote dissolution, a number of action make materials more fine.

Lab three stages five storey inline mixers is our new technology to realize continuous production. It solves the problem of normal emulsifying pump's limits. And it not only realizes the continuous transport but also mixing, homogenizing etc.

Technical Parameters



Emulsifying Pump

Pictures



Pictures



Pictures



Pictures





Horizontal bead mill

- ☑ High efficiency
- ☑ Nanometer grade
- ☑ Different capacity (10-300L)
- ☑ Easy maintenance, low cost

Overview

Horizontal bead mill is a continuously-processing grinding and dispersing machine with a horizontal chamber. It is the most widely used, most advanced and most efficient grinding equipment. Huayun horizontal bead mill can be divided into disc type bead mill, pin type bead mill and turbine type bead mill based on the shape of the working part for the grinding medium.



Working principal

Horizontal bead mill mainly drives the dispersing shaft for high-speed movement by the motor. Under the action of the dispersing disc, the grinding medium performs high-speed movement, and the friction and shearing force make the material to be ground and dispersed repeatedly. Finally, the grinding medium is separated by the dynamic separator and the screen to make the qualified material flow out from the discharge pipe. Meanwhile the material is pumped into the chamber through the feeding system constantly, thereby realizing long-term continuous grinding work!

System introduction

The feeding system

The feeding system consists of a transfer pump and a pipe,material passing stainless steel hose pipe,and the material is pumped from the rear end of the cylinder and the qualified material flows out from the front end. A pneumatic diaphragm pump or a hose pump is commonly used for conveying material, and the flow rate of the pump can be automatically adjusted.

Thermal design for grinding cylinder

In the grinding process, a large amount of heat is generated. The Huayun horizontal bead mill designed the grinding cylinder with a jacket, forced cooling through a spiral diversion tank.According to temperature requirements of the materials and the volume of the bead mill,you can choose different cooling machine.The optional size of the cooling machine can realize the control of the grinding temperature and protect the characteristics of different material.
The bottom of the cylinder support is equipped with casters. When the connecting bolts are removed, the grinding cylinder can be pulled out for maintenance or cleaning.

Mechanical seal

Huayun disc bead mill adopts double mechanical seal to make it fully enclosed, thus eliminating material leakage during production in order to reduce pollution.
Each sand mill is equipped with an organic sealing tank.The cooling liquid is pumped in to lubricate and cool down the mechanical seal circularly by the electric pump.You can choose different cooling liquid according to different grinding material.

Transmission component

Due to the high speed of the horizontal bead mill, only one level of belt drive can reduce the speed of the motor to the required speed.The main motor is mounted on the motor board, and the motor is lifted and lowered by adjusting the bolts to facilitate the exchange and tension of the V-belt.

Application industry

Huayun horizontal bead mill is widely used in coatings, dyes, inks, photosensitive materials, pesticides, medicine, lithium batteries, nano new materials, carbon nanotubes, cosmetics, graphene and other industries.



Coatings



Dyes



Inks



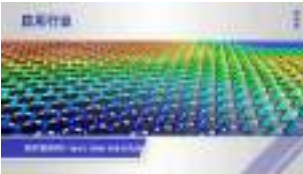
Photosensitive materials



Pesticides



Medicine



Nano new materials



Carbon nanotubes



Cosmetics



Lithium batteries



Graphene

Strong applicability

In order to ensure the adaptability of the products, Huayun can provide various choices of grinding chambers/dispersion discs/rods/turbine/transport pumps of different materials;we can also supply control operation box, frequency converter, plc intelligent control system, electric contact equipment and other optional accessories according to customer's requirements.

Complete category

Huayun disc bead mill fully meets the specifications of 10L to 300L, with complete product type and wide application range.

HYSM-New type horizontal bead mill-Disc type

Working principal

The dispersing device of HYSM disc bead mill is composed of a main shaft, a dispersing disc, a reflecting cage and a bushing. During operation, the mechanical energy generated by the rotation of the dispersing disc is transmitted to the grinding medium through the rotation of the main shaft, so that the material is ground and dispersed uniformly. A reflective cage is arranged at the front end of the main shaft to prevent the grinding medium from collecting at the discharge screen and causing wear on the screen. Huayun disc bead mill has a wide range of applications, and the grinding fineness can reach below 5 microns.



Technical Parameters

Model	Chamber Volume (L)	Power (KW)	Spindle Speed (r/min)	Media Loading (L)	Weight (Kg)	Dimensions (mm)
HYSM10	10	11	1200	7-7.5	580	1350*1280*850
HYSM15	15	15	1200	10.5-11.5	600	1350*1280*850
HYSM20	20	18.5	1200	14-15	650	1450*1280*850
HYSM30	30	22	1100	21-22.5	1200	1570*1200*1390
HYSM40	40	30	1100	28-30	1270	1740*1200*1390
HYSM50	50	37	900	35-37.5	1350	1790*1220*1530
HYSM60	60	37	900	42-45	1400	1890*1220*1530
HYSM80	80	45	700	56-60	1900	1890*1300*1690
HYSM100	100	55	700	70-75	2100	2010*1500*1690
HYSM120	120	55	700	84-90	2500	2100*1500*1690
HYSM150	150	75	650	105-112.5	3200	2200*1650*1750
HYSM200	200	90	500	140-150	3500	2260*1650*1750
HYSM300	300	110	450	210-225	4200	2500*1700*1800

(Note: Inverter with control cabinet suggested , if motor power is 30kw and above.Frequency conversion starts makes currency more stable,and machine will work in the most reasonable condition .)

HYSM-New type horizontal bead mill-Disc type

Characteristics

1. Compact structure, easy to operate;
2. More advanced screen ensures high efficiency without blocking.
3. Wear-resistance milling tank, and different type for option.
4. Jacket type milling tank and double cooling system, ensure whole process under same temperature range.
5. Anti-explosion and PLC are optional.
6. Pressure and temperature are under control.

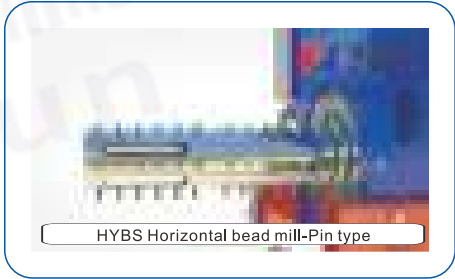
Specification Sheet

Standard ■/ Optional ◎		
Grinding Chamber Material	304	◎
	A3	■
Grinding Chamber Liner Material	Polyurethane	◎
	Silicon Carbide	◎
	Alloy Steel	■
	304	◎
	Zirconium oxide	◎
Feed Pump	Diaphragm Pump	■
	Hose Pump	◎
Electric Appliances	Full Explosion-proof	◎
	Standard	■
Control	PLC	◎
	Electric Control Cabinet	■
Pressure Gauge / Thermometer	Electrical Contact	◎
	Standard	■

HYBS Horizontal bead mill-Pin type

Working principal

The mixing parts of HYBS rod pin bead mill are rod pins. The rod pins are generally short and cylindrical. They are mounted on the hollow mixing shaft and combined with the horizontal grinding cylinder to form a high-density energy grinding chamber. The shaft drives the rod pin to perform high-speed operation. The rod pin drives the medium and the material to collide and grind. The material is subjected to strong impact force and high shear force, which makes the grinding dispersion effect more remarkable. It is suitable for grinding materials that are extremely difficult to disperse. Suitable for grinding ultra-fine nanoscale material with medium and high viscosity.



Technical Parameters

Model Parameters	HYBS-10	HYBS-30	HYBS-60	HYBS-100	HYBS-150	HYBS-300
Chamber Volume (L)	10	30	60	100	150	300
Power (KW)	22	45	55	75/110	160	315
Grinding Media (mm)	0.4-2.0	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5	0.5-2.5
Total Weight (Kg)	1200	2400	2800	3600	4500	8400

HYBS Horizontal bead mill-Pin type

Characteristics

1. Compact structure, easy to operate;
2. Several pins clash medias hardly, force medias to mill and dispense materials quickly;
3. More advanced screen ensures high efficiency without blocking.
4. Wear-resistance milling tank, and different type for option.
5. Jacket type milling tank and double cooling system, ensure whole process under same temperature range.
6. Anti-explosion and PLC are optional.
7. Pressure and temperature are under control.

Specification Sheet

Standard ■/ Optional ◎		
Grinding Chamber Material	304	◎
	A3	■
Grinding Chamber Liner Material	Polyurethane	◎
	Silicon Carbide	◎
	Alloy Steel	■
	304	◎
	Zirconium oxide	◎
Feed Pump	Diaphragm Pump	■
	Hose Pump	◎
Electric Appliances	Full Explosion-proof	◎
	Standard	■
Control	PLC	◎
	Electric Control Cabinet	■
Pressure Gauge / Thermometer	Electrical Contact	◎
	Standard	■

HYWL Horizontal bead mill-Turbo bead mill

Working principal

The dispersing device of the HYWL turbine bead mill is composed of a main shaft, a turbine, a reflecting cage and a bushing. The main shaft drives the dispersing turbine to rotate at a high speed, and agitates the grinding medium in the cylinder to generate a swirling flow and a radial movement, thereby the product can achieve the specified fineness and color saturation after forced grinding and dispersion.

In the meantime, the product and the grinding media are separated by the dynamic discharge gap. Huayun turbine bead mill is suitable for grinding and dispersing ultra-fine material with medium and low viscosity,the grinding fineness can reach below 2 microns.



Technical Parameters

Model	Chamber Volume (L)	Power (KW)	Spindle Speed (r/min)	Media Loading (L)	Weight (Kg)	Dimensions (mm)
HYWL30	30	37-45	700-1200	21-22.5	1200	1570*1200*1390
HYWL60	60	55-75	500-800	42-45	1400	1890*1220*1530

(Note: Inverter with control cabinet suggested , if motor power is 30kw and above.Frequency conversion starts makes currency more stable,and machine will work in the most reasonable condition .)

HYWL Horizontal bead mill-Turbo bead mill

Characteristics

1. Compact structure, easy to operate;
2. More advanced screen ensures high efficiency without blocking.
3. Wear-resistance milling tank, and different type for option.
4. Jacket type milling tank and double cooling system, ensure whole process under same temperature range.
5. Anti-explosion and PLC are optional.
6. Pressure and temperature are under control.

Specification Sheet

Standard ■/ Optional ◎		
Grinding Chamber Material	304	◎
	A3	■
Grinding Chamber Liner Material	Polyurethane	◎
	Silicon Carbide	◎
	Alloy Steel	■
	304	◎
	Zirconium oxide	◎
Feed Pump	Diaphragm Pump	■
	Hose Pump	◎
Electric Appliances	Full Explosion-proof	◎
	Standard	■
Control	PLC	◎
	Electric Control Cabinet	■
Pressure Gauge / Thermometer	Electrical Contact	◎
	Standard	■

Pictures



Pictures





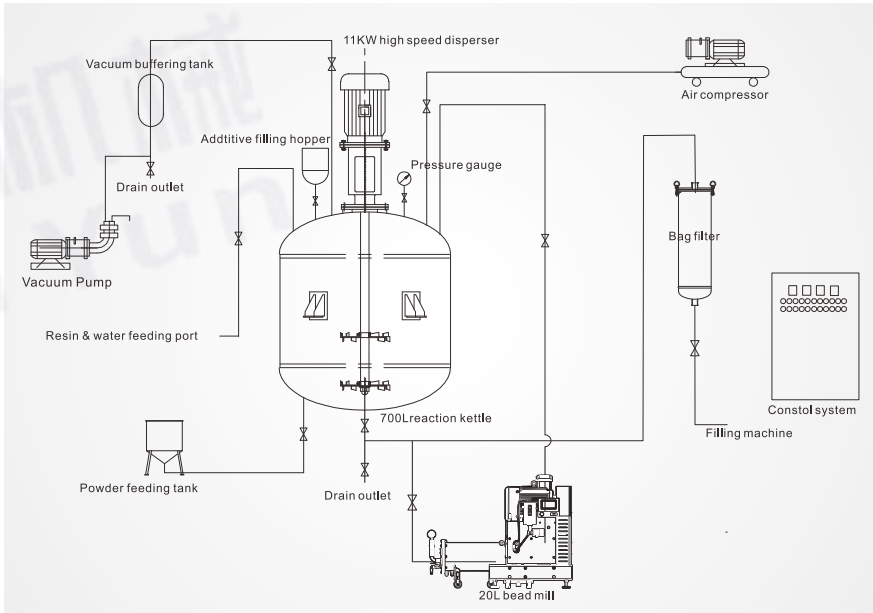
Complete Paint Production Line

- ☑ Meet the requirements of national environmental protection
- ☑ Less investigation, quick return of benefit
- ☑ Suitable for various paint production and specialized paint production
- ☑ Stainless steel parts with mirror polishing, stabilized the paint quality
- ☑ Control instruments are with automatic structures, transferring the fluid by pipeline, transferring powders and solids by air compressor and mechanical machines, high level automation.

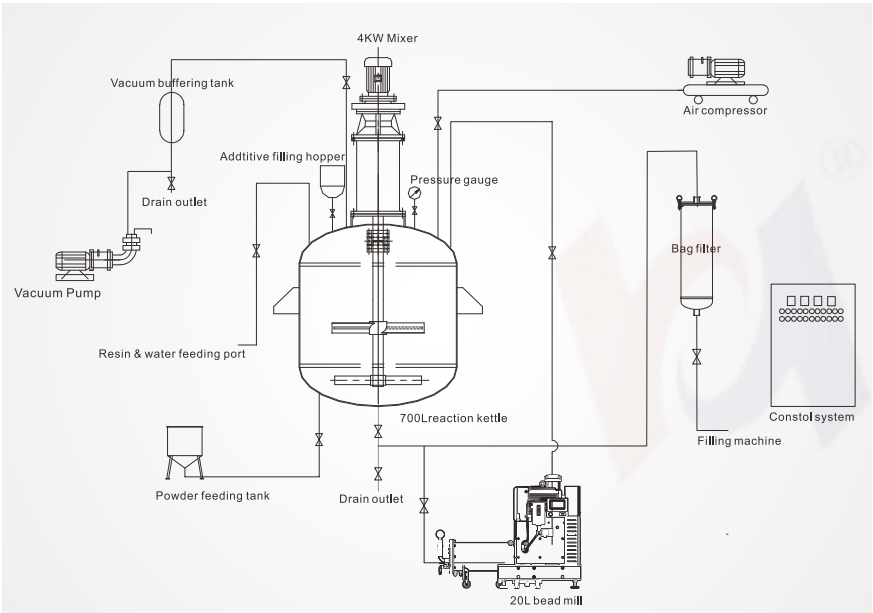
HYA-500
Production capacity 500-800tons /year,
average 0.6 tons every two hours.



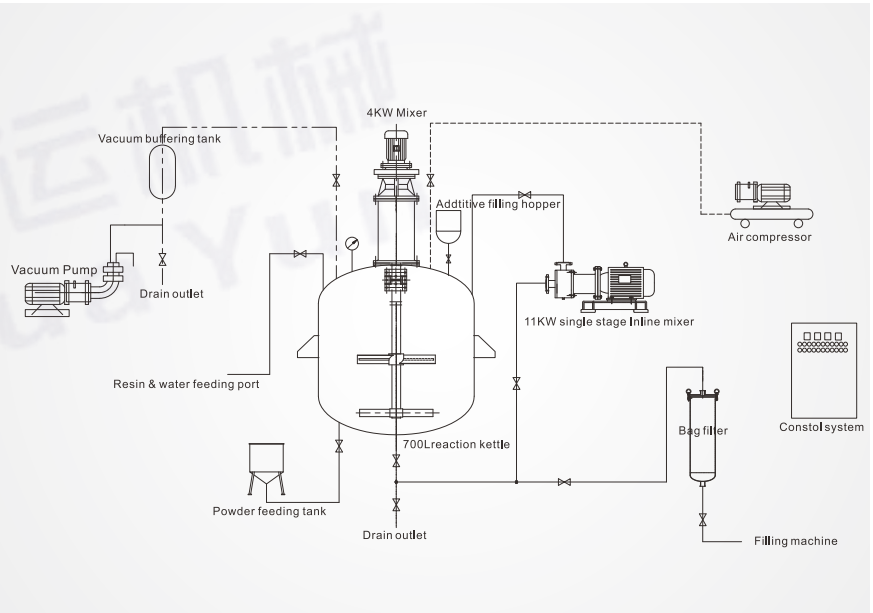
Process flowchart
(Standard equipped with disperser)



Process flowchart
(Standard equipped with mixer)



Process flowchart
(Standard equipped with mixer and inline mixer)



Equipment List (Standard equipped with disperser)

No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	700L, vacuum
2	High speed disperser	Combination unit	1	pc	11KW
3	Bead mill	Combination unit	1	pc	20L
4	Vacuum Pump	Combination unit	1	pc	Water ring type
5	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
6	Air compressor	Combination unit	1	pc	
7	Additive feeding hopper	Stainless Steel	1	pc	5L
8	Pipeline system	Stainless Steel	1	pc	Quick coupler
9	Operation platform	Combination unit	1	pc	Aluminium alloy table
10	Control cabinet	Combination unit	1	pc	
11	Bag filter	Stainless Steel	1	pc	With 2 bag filter free
12	Powder feeding tank	Stainless Steel	1	pc	

Equipment List (Standard equipped with mixer)

No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	700L, vacuum
2	Mixer	Combination unit	1	pc	4KW
3	Bead mill	Combination unit	1	pc	20L
4	Vacuum Pump	Combination unit	1	pc	Water ring type
5	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
6	Air compressor	Combination unit	1	pc	
7	Additive feeding hopper	Stainless Steel	1	pc	5L
8	Pipeline system	Stainless Steel	1	pc	Quick coupler
9	Operation platform	Combination unit	1	pc	Aluminium alloy table
10	Control cabinet	Combination unit	1	pc	
11	Bag filter	Stainless Steel	1	pc	With 2 bag filter free
12	Powder feeding tank	Stainless Steel	1	pc	

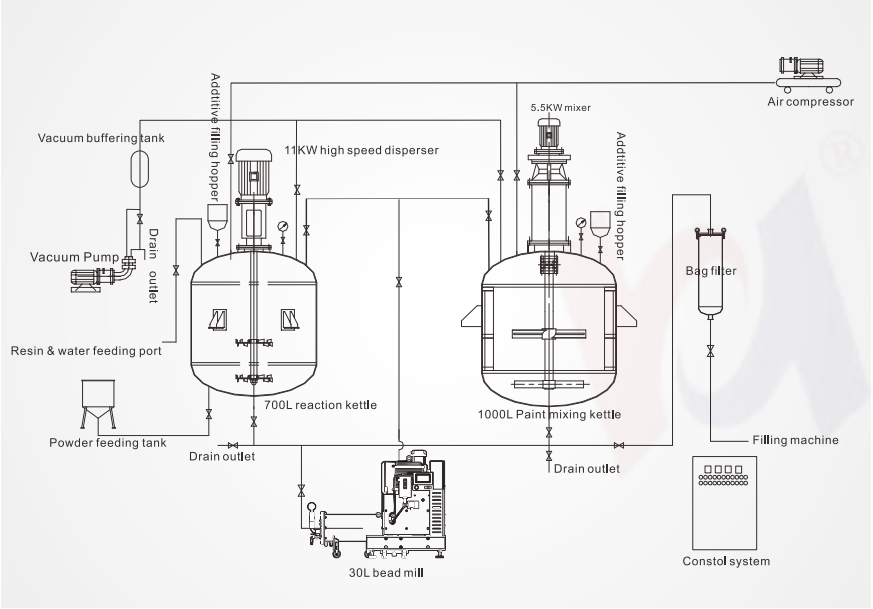
Equipment List (Standard equipped with mixer and inline mixer)

No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	700L, vacuum
2	Mixer	Combination unit	1	pc	4KW
3	Inline mixer	Combination unit	1	pc	11KW
4	Vacuum Pump	Combination unit	1	pc	Water ring type
5	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
6	Air compressor	Combination unit	1	pc	
7	Additive feeding hopper	Stainless Steel	1	pc	5L
8	Pipeline system	Stainless Steel	1	pc	Quick coupler
9	Operation platform	Combination unit	1	pc	Aluminium alloy table
10	Control cabinet	Combination unit	1	pc	
11	Bag filter	Stainless Steel	1	pc	With 2 bag filter free
12	Powder feeding tank	Stainless Steel	1	pc	

HYB-1000
Production capacity 1000-1500tons /year,
average 1.3 tons every 2 hours

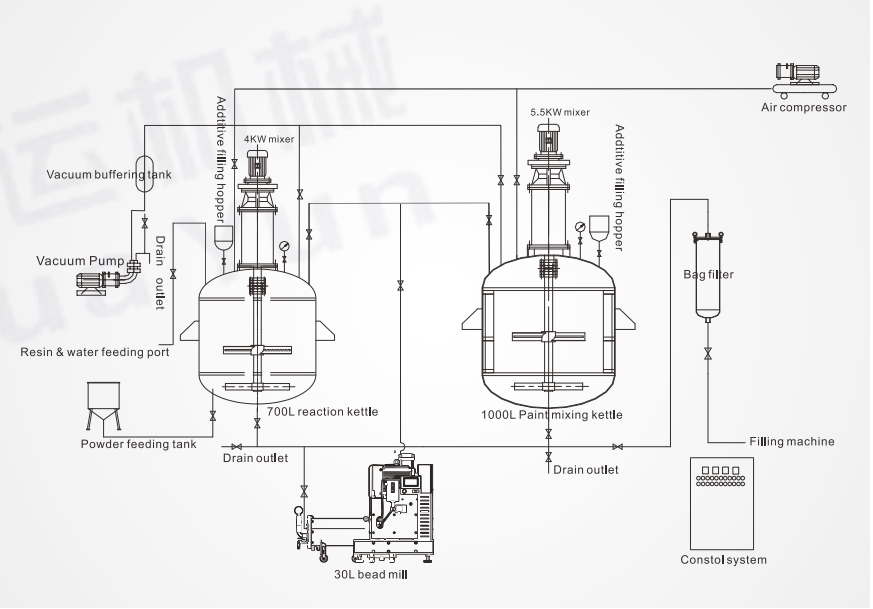


**Process flowchart
(Standard configuration)**



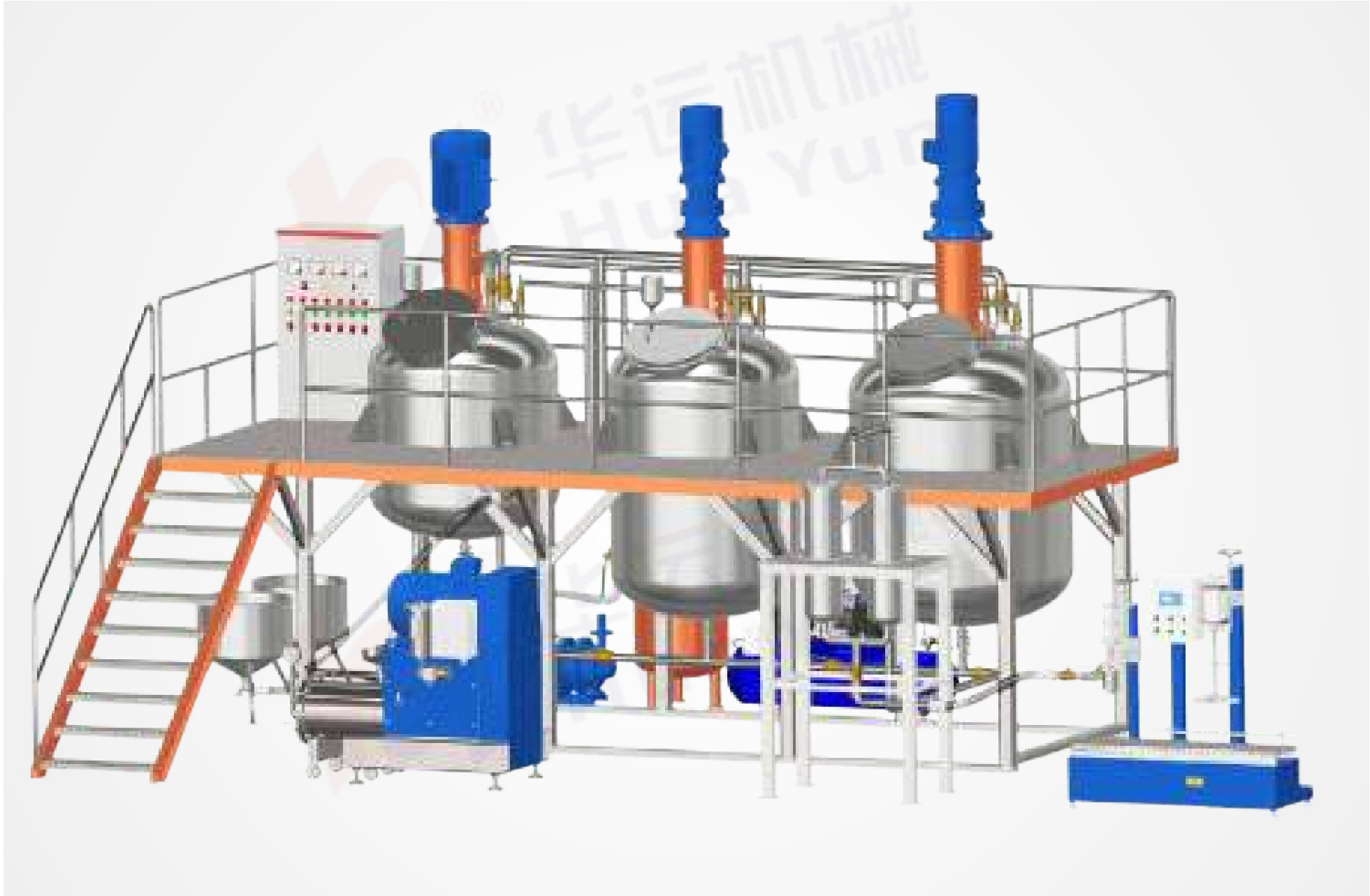
Equipment List (Standard configuration)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	700L, vacuum
2	Paint mixing kettle	Stainless Steel	1	pc	1000L, vacuum
3	High speed disperser	Combination unit	1	pc	11KW
4	Inverter	Combination unit	1	pc	11KW
5	Mixer	Combination unit	1	pc	5.5KW
6	Bead mill	Combination unit	1	pc	30L
7	Vacuum Pump	Combination unit	1	pc	Water ring type
8	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
9	Air compressor	Combination unit	1	pc	
10	Additive feeding hopper	Stainless Steel	2	pc	1 pc 5L, 1pc 10L
11	Pipeline system	Stainless Steel	1	pc	Quick coupler
12	Operation platform	Combination unit	1	pc	Aluminium alloy table
13	Control cabinet	Combination unit	1	pc	
14	Bag filter	Stainless Steel	1	pc	With 2 bag filter free
15	Powder feeding tank	Stainless Steel	1	pc	

**Process Flowchart
(Double mixer)**

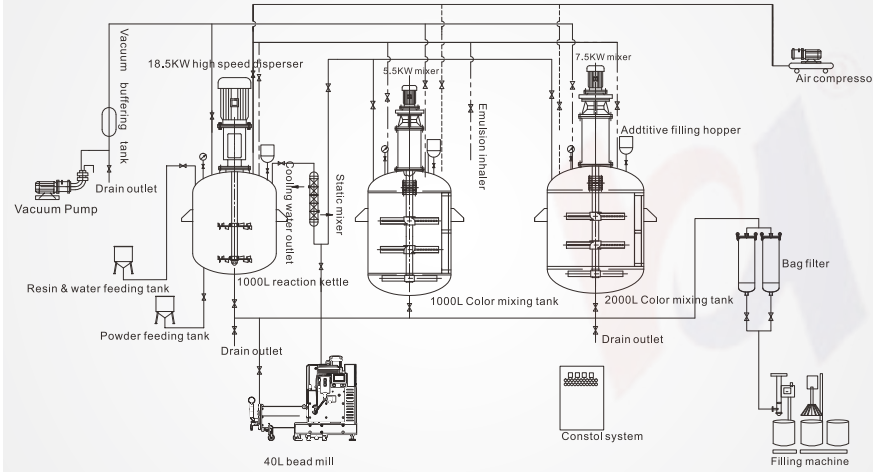


Equipment List (Double mixer)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	700L, vacuum
2	Paint mixing kettle	Stainless Steel	1	pc	1000L, vacuum
3	Mixer	Combination unit	1	pc	4KW
4	Mixer	Combination unit	1	pc	5.5KW
5	Bead mill	Combination unit	1	pc	30L
6	Vacuum Pump	Combination unit	1	pc	Water ring type
7	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
8	Air compressor	Combination unit	1	pc	
9	Additive feeding hopper	Stainless Steel	2	pc	1 pc 5L, 1pc 10L
10	Pipeline system	Stainless Steel	1	pc	Quick coupler
11	Operation platform	Combination unit	1	pc	Aluminium alloy table
12	Control cabinet	Combination unit	1	pc	
13	Bag filter	Stainless Steel	1	pc	With 2 bag filter free
14	Powder feeding tank	Stainless Steel	1	pc	

HYC-2000
Production capacity 2000-3000tons,
average 1 ton per hour

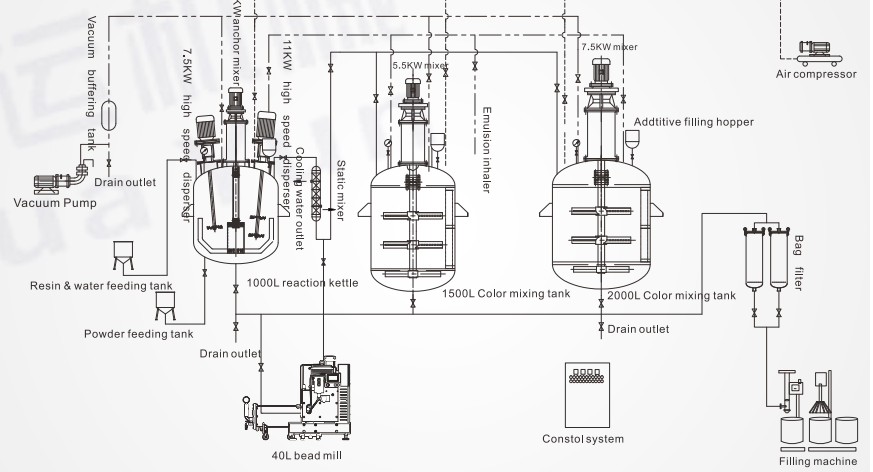


Process flowchart
(Standard configuration)



Equipment List (Standard configuration)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	1000L, Vacuum
2	High speed disperser	Combination unit	1	pc	18.5KW, double layer
3	Inverter	Combination unit	1	pc	18.5KW
4	Static mixer	Stainless Steel	1	pc	
5	Color mixing tank	Stainless Steel	1	pc	1500L, Vacuum
6	Mixer Combination unit	Combination unit	1	pc	5.5KW
7	Color mixing tank	Stainless Steel	1	pc	2000L, Vacuum
8	Mixer	Combination unit	1	pc	7.5KW
9	Bag filter	Stainless Steel	2	pc	
10	Powder inhaier	Stainless Steel	1	pc	DN65
11	Liquid inhaier	Stainless Steel	2	pc	DN50
12	Bead mill	Combination unit	1	pc	40L
13	Vacuum pump	Combination unit	1	pc	4W,water ring type
14	Air compressor	Combination unit	1	pc	4W
15	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
16	Additive feeding hopper	Stainless Steel	3	pc	1 pc 5L, 2 pc 10L
17	Powder feeding tank	Stainless Steel	1	pc	Quick coupler
18	Operation platform	Combination unit	1	pc	Aluminium alloy table
19	Control cabinet	Combination unit	1	pc	Equip inverter control panel
20	Semi-automatic filling machine	Combination unit	1	pc	With Capping machine
21	Powder feeding tank	Stainless Steel	1	pc	
22	Emulsion feeding tank	Stainless Steel	1	pc	

Process Flowchart
(Three heads type)



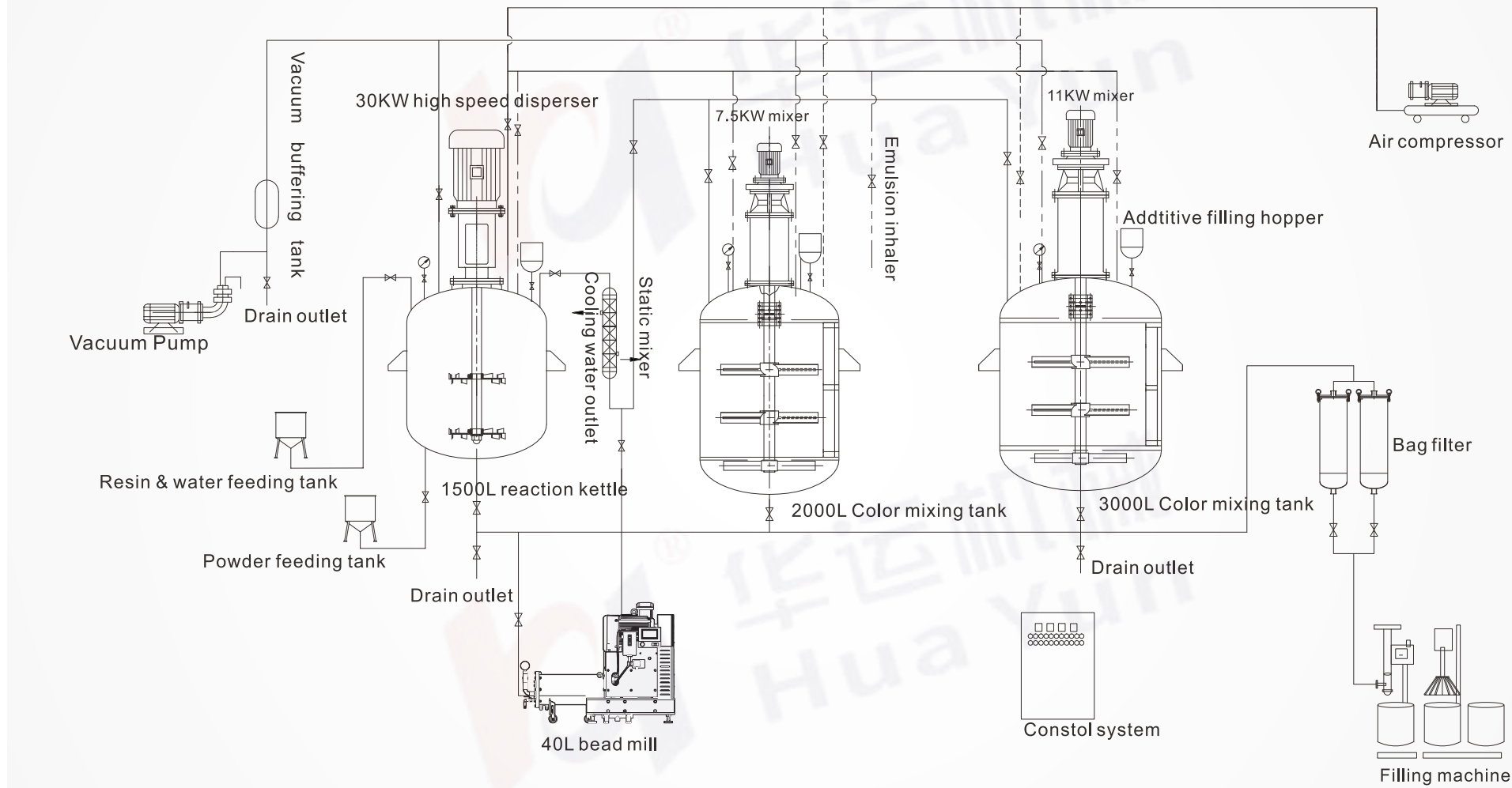
Equipment List (Three heads type)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	1000L, vacuum
2	High speed disperser	Combination unit	1	pc	7.5KW
3	High speed disperser	Combination unit	1	pc	11KW,double layer
4	Inverter	Combination unit	1	pc	
5	Inverter	Combination unit	1	pc	
6	Anchor mixer	Combination unit	1	pc	5.5KW
7	Static mixer	Stainless Steel	1	pc	
8	Color mixing tank	Stainless Steel	1	pc	1500L, vacuum
9	Mixer	Combination unit	1	pc	5.5KW
10	Color mixing tank	Stainless Steel	1	pc	2000L, vacuum
11	Mixer	Combination unit	1	pc	7.5KW
12	Bag filter	Stainless Steel	2	pc	
13	Powder inhaier	Stainless Steel	1	pc	DN65
14	Liquid inhaier	Stainless Steel	2	pc	DN50
15	Bead mill	Combination unit	1	pc	40L
16	Vacuum pump	Combination unit	1	pc	water ring type
17	Air compressor	Combination unit	1	pc	
18	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
19	Additive feeding hopper	Stainless Steel	3	pc	1 pc 5L, 2 pc 10L
20	Pipeline system	Stainless Steel	1	pc	Quick coupler
21	Operation platform	Combination unit	1	pc	Aluminium alloy table
22	Control cabinet	Combination unit	1	pc	Equip inverter control panel
23	Semi-automatic filling machine	Combination unit	1	pc	With Capping machine
24	Powder feeding tank	Stainless Steel	1	pc	
25	Emulsion feeding tank	Stainless Steel	1	pc	

HYD-5000

Production capacity 5000-6000tons,
average 2.1 tons per hour



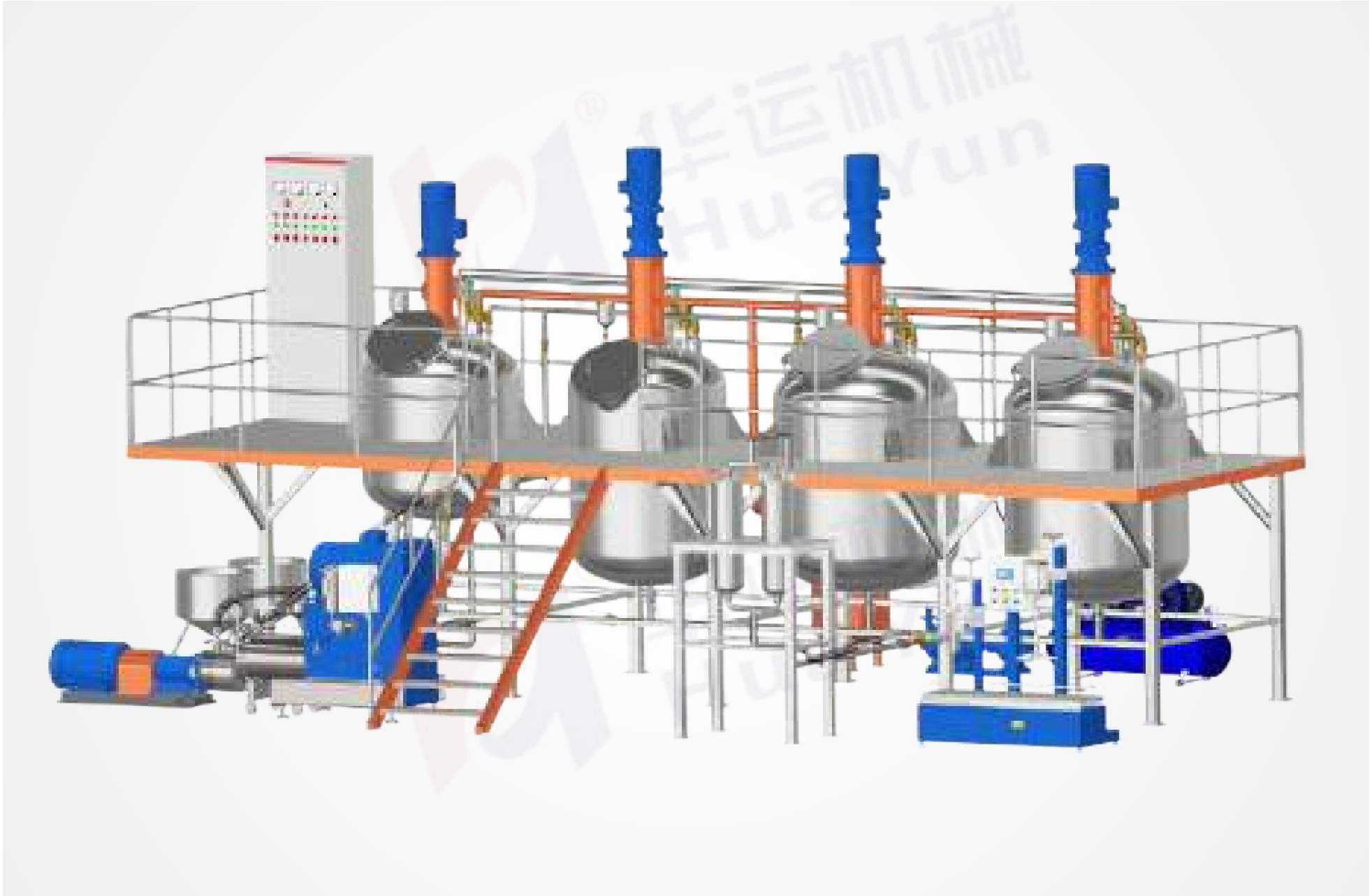
**Process flowchart
(Standard configuration)**



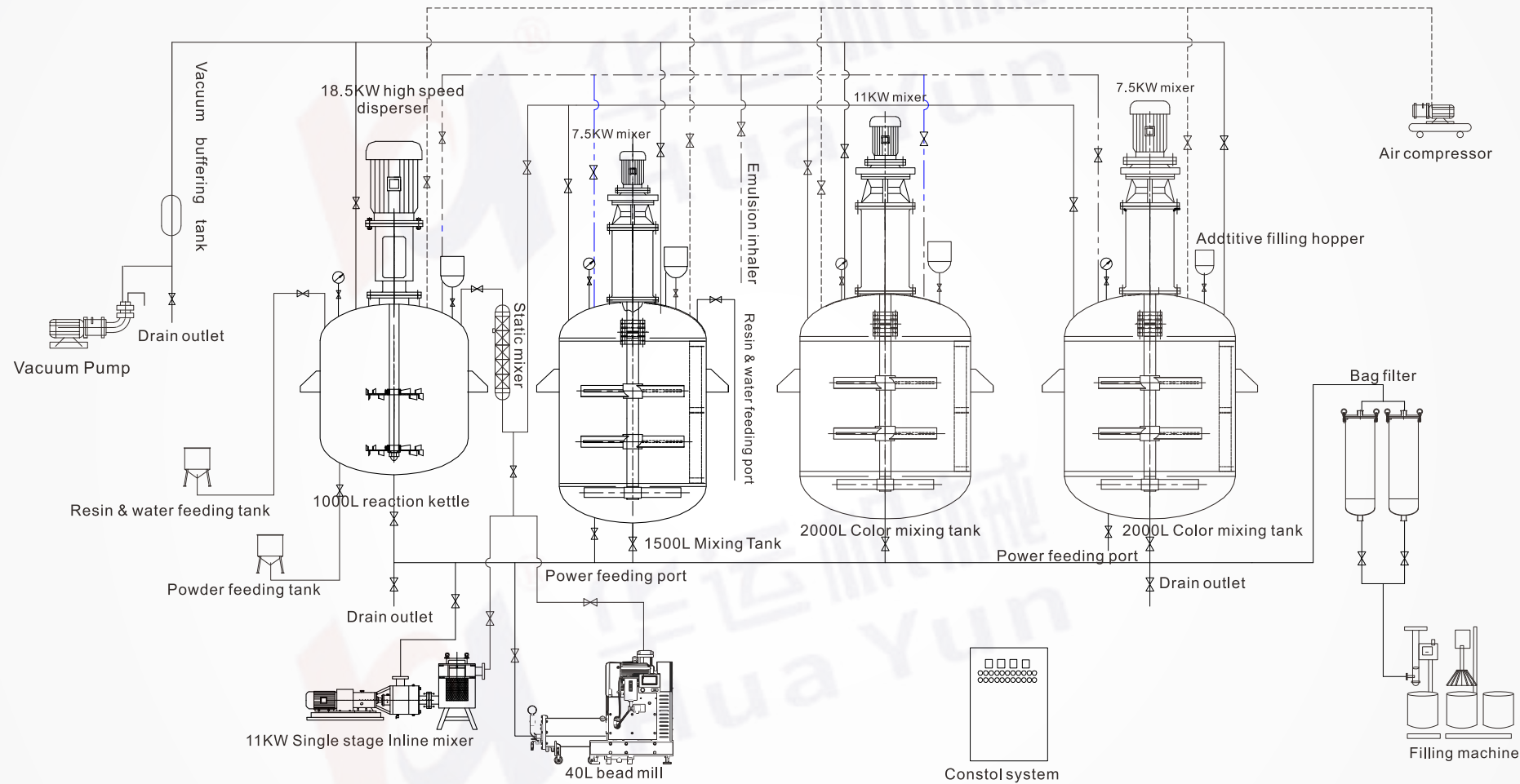
Process flowchart
(Standard configuration)

Equipment List (Standard configuration)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	1500L, vacuum
2	High speed disperser	Combination unit	1	pc	30KW,double layer
3	Inverter	Combination unit	1	pc	30KW
4	Static mixer	Stainless Steel	1	pc	
5	Color mixing tank	Stainless Steel	1	pc	2000L ,vacuum
6	Mixer	Combination unit	1	pc	7.5KW
7	Color mixing tank	Stainless Steel	1	pc	3000L, Vacuum
8	Mixer	Combination unit	1	pc	11KW
9	Bag filter	Stainless Steel	2	pc	
10	Powder inhler	Stainless Steel	1	pc	DN65
11	Liquid inhler	Stainless Steel	2	pc	DN50
12	Bead mill	Combination unit	1	pc	40L
13	Vacuum pump	Combination unit	1	pc	7.5KW, water ring type
14	Air compressor	Combination unit	1	pc	7.5W
15	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
16	Additive feeding hopper	Stainless Steel	3	pc	1 pc 5L, 2 pc 10L
17	Pipeline system	Stainless Steel	1	pc	Quick coupler
18	Operation platform	Combination unit	1	pc	Aluminium alloy table
19	Control cabinet	Combination unit	1	pc	Equip inverter control panel
20	Semi-automatic filling machine	Combination unit	1	pc	With Capping machine
21	Powder feeding tank	Stainless Steel	1	pc	
22	Emulsion feeding tank	Stainless Steel	1	pc	

HYD-6000
Production capacity 6000-8000tons /year,
average 2.5 tons every 2 hours



Process flowchart
(Standard configuration)



Process flowchart
(Standard configuration)

Equipment List (Standard configuration)					
No.	Description	Material	Qty	Unit	Remark
1	Reaction kettle	Stainless Steel	1	pc	1000L(inside and outside mirror polished No vacuum)
2	High speed disperser	Combination unit	1	pc	18.5/22KW, Converter motor
3	Frequency Inverter	Combination unit	1	pc	18.5KW
4	Static mixer	Stainless Steel	1	pc	
5	Mixing Tank	Stainless Steel	1	pc	1500L(inside and outside mirror polished 、No vacuum)
6	Mixer	Stainless Steel	1	pc	7.5KW (Multi-function)
7	Color mixing tank	Stainless Steel	1	pc	2000L(inside and outside mirror polished 、No vacuum)
8	Mixer	Stainless Steel	1	pc	11KW
9	Color mixing tank	Stainless Steel	1	pc	2000L(inside and outside mirror polished 、No vacuum)
10	Mixer	Stainless Steel	1	pc	7.5KW
11	Single stage Inline mixer	Combination unit	1	pc	11KW
12	Filter Barrel	Combination unit	1	pc	
13	Bag filter	Stainless Steel	2	pc	
14	Powder inhaler	Stainless Steel	1	pc	DN65
15	Liquid inhaler	Stainless Steel	3	pc	DN50
16	Bead mill	Stainless Steel	1	pc	40L
17	Vacuum pump	Combination unit	1	pc	7.5KW Water circulation type
18	Air compressor	Combination unit	1	pc	7.5KW
19	Vacuum buffering tank	Stainless Steel	1	pc	10L with filtering device
20	Additive feeding hopper	Stainless Steel	4	pc	1 pc 5L, 3 pc 10L
21	Pipeline system	Stainless Steel	1	pc	Fast connection
22	Operation platform	Combination unit	1	pc	Aluminum operation platform
23	Control cabinet	Combination unit	1	pc	With 18.5KW transducer control
24	Semi-automatic filling machine	Combination unit	1	pc	With capping machine